Nathan Gardner

LinkedIn: www.linkedin.com/in/snathangardner * Website/ Portfolio: nathan-gardner.github.io

Objective

I am looking for full-time employment around or slightly after May 2023. I am interested in computer programming and algorithmic problem solving. I am interested in positions in which I can challenge myself and learn new skills while contributing as a member of a team.

Education

Bachelor of Science in Computer Engineering   Graduation Expected May 2023

Tennessee Technological University - Cookeville, TN

- Dean's List: All 6 semesters attended
- Organizations: Tau Beta Pi, Eta Kappa Nu, IEEE
- Capstone Project: IEEE SoutheastCon Robotics Competition - Team Lead   August 2022 - Present
  - Cross-functional team made up of Electrical, Computer, and Mechanical Engineers building a robot to compete against several other schools in the Southeast in April 2023

Engineering Experience

Meta (formerly Facebook) - Forest City, NC

Data Center Engineer Intern   May 2022 - August 2022

- Department responsible for uptime, utilization, reliability, and solving systemic technical issues within a large-scale distributed data center environment which serves roughly 3.6 billion users
- Developed Python and BASH automation to improve scalability and efficiency for regularly performed server repair which impacted several data center sites
- Developed hardware trouble-shooting skills on infrastructure platforms of many types (covering large scale software automation, linux system boot process, Linux and Unix operating systems, hardware failure types and analysis, etc.)

Resilient Autonomous Networked Control Systems Laboratory - Cookeville, TN

Research Assistant   August 2021 - May 2022

- Team testing for vulnerabilities in autonomous vehicle control systems
- Focused on injecting faults to test current systems against false data injection attacks

Continental Tire - Mount Vernon, IL

Plant Engineering Intern   May 2021 - August 2021

Controls and Drives (Digital Services) Department

- Developed monitoring software using C# .NET core for use in manufacturing process monitoring
- Experience in development operations deployment: docker containerization of software for use on local server for 24/7 data monitoring
- Assisted in networking and programming related tasks and helped ensure the plant ran effectively

Tennessee Tech University - Cookeville, TN

Teaching Assistant, Unix Laboratory   January 2021 - May 2021

- Assisted instructor in course delivery, including topics such as BASH scripting and the Linux/Unix operating system
- Assisted students with questions on weekly Unix-based labs

Organizations

Institute of Electrical and Electronics Engineers (IEEE), TTU Chapter - Cookeville, TN

Officer, Public Relations Chair   May 2022 - Present

- Public facing officer responsible for building relationships with alumni and finding speakers for on campus IEEE sponsored events

Officer, Social Chair   May 2021 - May 2022

- Plan IEEE social events on campus and network with community members the spread the word about the IEEE mission on campus
- Foster community and involvement on campus around IEEE and the electrical and computer engineering department
- IEEE's core purpose is to foster technological innovation and excellence for the benefit of humanity

Officer, Treasurer   August 2020 - May 2021

Active Member   August 2019 - Present

Skills

- Linux/Unix systems • Python • C/C#/C++ • Hardware Troubleshooting • VHDL • Hardware Diagnostics • Servers • Git • MATLAB •

Relevant Coursework

- Electric Circuits I & II • Electronics I • Fund. of Computer Design (Computer Architecture) • Computer Networks • Signals and Systems • Microcomputer Systems • Embedded System Design • Digital System Design • Data Structures and Algorithms • Design & Analysis of Algorithms • Calculus I & II & III • Probability and Statistics •